Rosemont Copper Project EIS Cooperating Agency Coordination Meeting 04/22/2010 Optional Heritage Resources Workshop

Federal Building, 300 W. Congress, Tucson, AZ Room 6V6 (6th floor) 1 p.m. – 3:30 p.m.

Introductions (all)

Update on Reports (SWCA's Suzanne Griset & Jerome Hesse)

- Archaeological survey report and Class I analysis
- Ethnohistory Phase I

Discussion Topics

- Draft "environmental consequences" regarding cultural resources for the alternatives identified to date (Suzanne Griset)
- Identifying "cumulative effects" defining and describing the cumulative impact analysis area(s) for archaeological sites and tribal concerns (SWCA and FS with discussion by all)

Next steps, next meeting, wrap-up

Expected Participants

Cooperating Agency Representatives:	Forest Service Representatives:			
Linda Mayro, Loy Neff, Julia Fonseca, Pima	Teresa Ann Ciapusci			
County	Debby Kriegel			
Amy Sobiech & Cindy Alvarez, BLM	Bill Gillespie			
Jim Ayres, U. of Az.	Mary Farrell			
Peter Steere and Joe Joaquin, Tohono	Kent Ellett, Nogales District Ranger			
O'odham Nation				
	SWCA representatives:			

Rosemont Representative:

Gordon Cheniae

Dr. Suzanne Griset Jerome Hesse

Rosemont Copper Project Cooperating Agency Special Topic Meeting Heritage Resources

04/22/2010 1:00 PM to 4:00 PM Federal Building 300 West Congress Tucson, Arizona

Meeting Notes

Discussion:

Participants:

USFS Coronado National Forest

USDI BLM

→ Tohono O'odham Nation

Pima County

SWCA

Cheniae and Associates

Handouts:

- Agenda
- Cumulative Effects
- Maps

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- Figure 1. Location, Coronado National Forest
- Excerpt from Snowbowl EIS Page 77 (Interpretive Themes and Related Resources) Map of the Sky Island region and locations of proposed National Heritage Area
- Excerpt from Snowbowl EIS Page 79 (Interpretive Themes and Related Resources) The diverse biotic communities located in the proposed National Heritage Area
- Resolution of the Tohono O'odham Legislative Council (opposing the Proposed Rosemont Copper Project); Resolution Number 09-569 dated October 22, 2009
- 1. Update on Heritage Specialist and Cultural Data Reports
- 2. Archeological Survey 2007 and Ethnography/Ethnostory Reports
 - a. SWCA is incorporating final resource specialist comments
- 3. Archival Record Search
 - a. Initiated for the four (4) conceptual alternatives
 - b. Noted that changes in methodology used for survey protocol from surveys done for ANAMAX and earlier mining proposals will result in different numbers of recorded sites
 - c. Data upgrades are in progress
- 4. Tribal Interactions Overview
 - a. Ethnohistory draft nearing review status

PPT: Class I survey overview (Exempt from release under FOIA)

Distributed CD copies of the Class I overview (FOIA Exempt information) to Pima County, USDI BLM, and Rosemont contractor (Gordon Cheniae of Cheniae and Associates)

- ⇒ 1. Participants viewed Class I Inventory loci maps and survey location maps
 - 2. Described report components
 - 3. Described resource specialists evaluation of data that is needed to sufficiently develop mitigation options

Cumulative Effects

- Resource specialists requested input to consider in defining spatial and temporal bounds of analysis for tribal and cultural resources
- 2. Overview of cumulative effects analysis resources
- ⇒ 3. Discussion topics
 - a. Magnitude of threshold compromise
 - b. Indirect effects as a means of informing cumulative
 - c. Displaced values and activities if access is reduced or eliminated

- d. Spiritual/cultural connections
- 4. Identification of archeological values and impacts
 - a. Habitation
 - b. Special use sites
 - c. Evaluation of range uses
 - d. Continuity of use
- 5. Irretrievable resource commitments
- 6. Multi-layered nature of cultural resource issues
- 7. Need for holistic research designs not site-by-site
- 8. Structure hierarchy of archeological values
 - a. Community
 - b. Site type
 - c. Proximate sites
 - d. Complimentary activities
- 9. Process for incorporation of indirect effects analysis in chapter 3 of the DEIS

Action Items:

- ⇒ Provide comments on survey and inventory to SWCA
 - Provide SWCA spatial and temporal boundaries for indirect effects

Next Meeting:

⇒ May 14, 2010 @ 1:00 pm. (time and date tentative)

Organization Name email Forest Service mfarrella Ps. Rd. US Many Farrell BLM. CINDY Alvarez Cindy-Alverez @ BLM-goe Loy NEFF Loy. neft epw.pima.ga Pima County Gordon Chenias gchenièce cox. Chaniae + Assoc tciapusci@fs fed. us TERESA ANN CIAPUSCI FOREST SERVICE 5WCA Squesta swca.com Suganne Grist Jerome Hasse jhesse a swca.com SWCA peter. Steve@ tonation-NSN.gov TON Reter 5 teere luider mayor Pina Co. luider Mayro @ pw. pina , 901

Rosemont Copper Project EIS Cooperating Agency Coordination Meeting 04/22/2010 Optional Heritage Resource Workshop Participant List

Name	Organization	E-mail Address		
Mary Farrell	Forest Service	mfarrell@fs.fed.us		
Cindy Alvarez	BLM Cindy_Alvarez@blm.gov			
Loy Neff	Pima County Loy.Neff@pw.pima.gov			
Gordon Cheniae	Cheniae and Associates	gcheniae@cox.net		
Teresa Ann Ciapusci	Forest Service	tciapusci@fs.fed.us		
Suzanne Griset	SWCA	sgriset@swca.com		
Jerome Hesse	SWCA	jhesse@swca.com		
Peter Steere	Tohono O'odham Nation	peter.steere@tonation-nsn.gov		
Linda Mayro	Pima County	Linda.mayro@pw.pima.gov		

Cumulative Effects

Define and describe the cumulative impact analysis area for cultural resources:

Spatial Bounds/Temporal Bounds
 For example, "Encompasses xxx square miles and is bounded by xxxx."

Past, Present and Reasonably Foreseeable Future Actions

- Describe the major projects (type of actions and acreage impacted) that have occurred in this area.
- Talk about kinds of impacts by major projects of all kinds within APE and Analysis Area
- Talk about impacts by each major type of project e.g., by mining:
- e.g. "The impact to cultural resources by past mining activities cannot be directly quantified for the analysis area. It is possible, however, to produce some indirect estimates of these impacts using the results of.."
- Calculate average # sites/acre in this area
- Talk about impacts by Proposed Action and Alternatives
- e.g. "Overall, it is possible to roughly estimate that cumulative impacts to cultural resources in the analysis area involve approximately xxx sites, or xxx percent of the properties.
- e.g. "Over the last 30 years, these impacts have been lessened by the fact that mitigation has been required for actions with federal or state involvement. Data recovery procedures, approved by federal agencies and the SHPO are intended to recover the information potential of impacted sites prior to project impacts. Over the years, these procedures continue to improve so that better information is recovered. As a result, while site loss to actions continues, better mitigation procedures are reducing the amount of information loss. This, coupled with the federal and state goal of avoiding impacts to sites where possible, has slowed the impacts to the resources base."

Irretrievable and Irreversible Commitments of Resources

Discuss by Alternative

A Few References:

Considering Cumulative Effects Under the National Environmental Policy Act http://ceq.hss.doe.gov/publications/cumulative_effects.html

"Only by reevaluating and modifying alternatives in light of the projected cumulative effects can adverse consequences be effectively avoided or minimized. Considering cumulative effects is also essential to developing appropriate mitigation and monitoring its effectiveness. In many ways, scoping is the key to analyzing cumulative effects; it provides the best opportunity for identi&ing important cumulative effects issues, setting appropriate boundaries for analysis, and identifying relevant past, present, and future actions. Scoping allows the NEPA practitioner to "count what counts." By evaluating resource impact zones and the life cycle of effects rather than projects, the analyst can properly bound the cumulative effects analysis. Scoping can also facilitate the interagency cooperation needed to identify agency plans and other actions whose effects might overlap those of the proposed action."

Consideration Of Cumulative Impacts In EPA Review of NEPA Documents U.S. Environmental Protection Agency, Office of Federal Activities (2252A) EPA 315-R-99-002/May 1999 http://www.epa.gov/compliance/resources/policies/nepa/cumulative.pdf

"At a minimum, the mitigation should address the proposed project's contribution to the cumulative impacts. In addition, it is appropriate to suggest mitigation to address cumulative impacts that are caused by activities other than the proposed project. For example, mitigation could include forming partnerships among the different governmental agencies and private organizations to work on environmental restoration when those entities have contributed to cumulative impacts over a long period of time. It is important to note that EPA suggestions for mitigation are not necessarily constrained by whether the action agency has jurisdiction to implement the measures but the measures should be realistic and technically feasible.

"Determine which resources are cumulatively affected by considering:

- (1) whether the resource is especially vulnerable to incremental effects;
- (2) whether the proposed action is one of several similar actions in the same geographic area;
- (3) whether other activities in the area have similar effects on the resource;
- (4) whether these effects have been historically significant for this resource; and
- (5) whether other analyses in the area have identified a cumulative effects concern.

While a broad consideration of resources is necessary for the adequate assessment of cumulative impacts, the analysis should be expanded for only those resources that are significantly affected.

Geographic boundaries and time periods used in cumulative impact analysis should be based on all resources of concern and all of the actions that may contribute, along with the project effects, to cumulative impacts. Generally, the scope of analysis will be broader than the scope of analysis used in assessing direct or indirect effects. To avoid extending data and analytical requirements beyond those relevant to decision making, a practical delineation of the spatial and temporal scales is needed. The selection of geographic boundaries and time period should be, whenever possible, based on the natural boundaries of resources of concern and the period of time that the proposed action's impacts will persist, even beyond the project life."

Threshholds: "Determining a threshold beyond which cumulative effects significantly degrade a resource, ecosystem, or human community is sometimes very difficult because of a lack of data. Without a definitive threshold, the NEPA practitioner should compare the cumulative effects of multiple actions with appropriate national, regional, state, or community goals to determine whether the total effect is significant. These desired conditions can best be defined by the cooperative efforts of agency officials, project proponents, environmental analysts, non-governmental organizations, and the public through the NEPA process.

Holistic Conservation and Cultural Triage: American Indian Perspectives on Cultural Resources Richard W. Stoffle and Michael J. Evans, *Human Organization* Volume 49, Number 2 / Summer 1990, pages 91 - 99

http://sfaa.metapress.com/app/home/contribution.asp?referrer=parent&backto=issue,1,11;journal,80,272;linkingpublicationresults,1:113218,1

"The National Environmental Policy Act and other laws require American Indian cultural resource studies as part of the environmental impact assessment of development projects. Indian people make two general types of responses: holistic conservation ("this land is mine, go away") and cultural triage ("if you go ahead with the project then these are the cultural resources that require most protection"). The analysis is based on 11 cultural resource projects. The major findings are that (1) more policy impacts can be achieved by having both types of responses, (2) the research methods can influence whether or not both types of responses will be provided by Indian people, and (3) Indian people experience emotional and social risks when they engage in cultural triage."

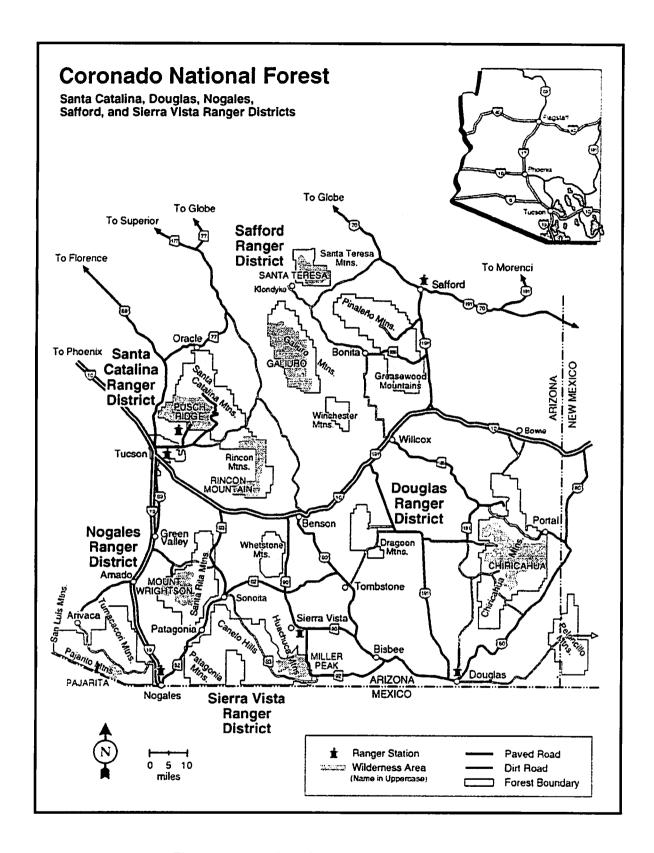
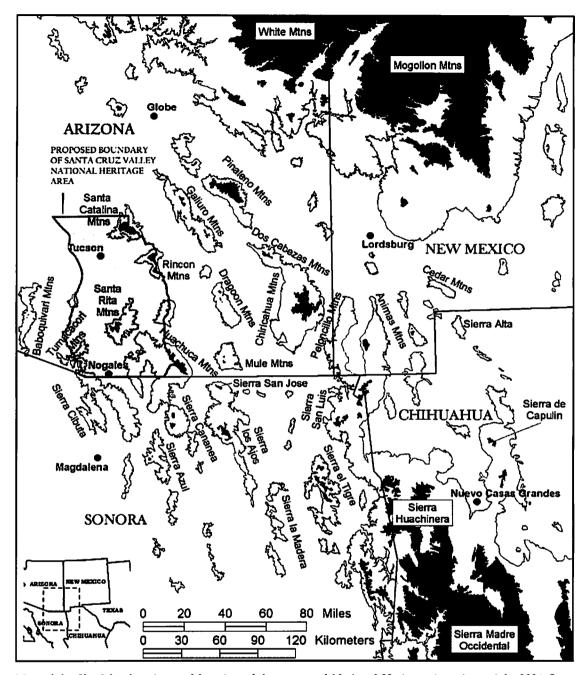


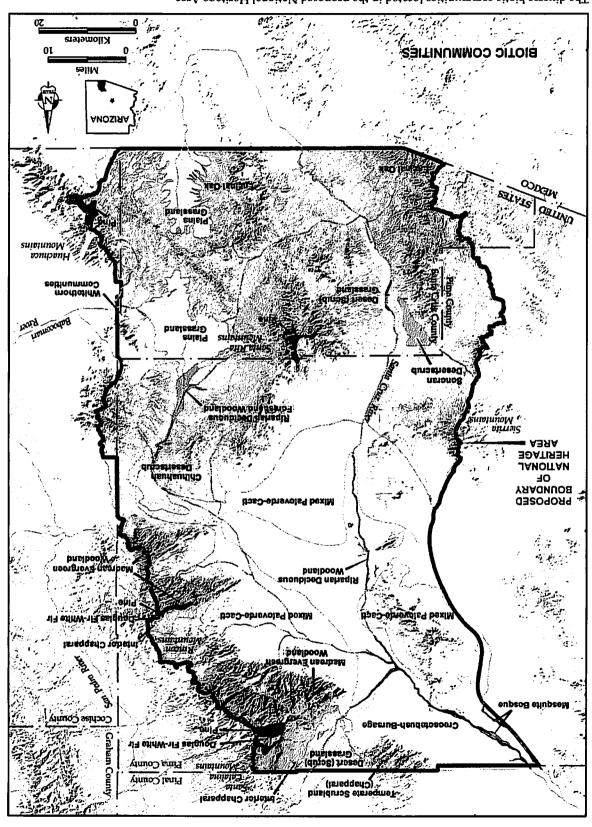
Figure 1. Location, Coronado National Forest.



Map of the Sky Island region and location of the proposed National Heritage Area (copyright 2004 Cory Jones, Sky Island Alliance).

thunderstorms. Rain falls about equally in the two seasons and provides the region with an average of 12 inches annually, although this varies widely with elevation, as do temperatures.

To my mind these live oak-dotted hills fat with side oats grama, these pine-clad mesas spangled with flowers, these lazy trout streams burbling along under great sycamores and cottonwoods, come near to being the cream of creation. - Aldo Leopold, 1937



The diverse biotic communities located in the proposed National Heritage Area.

RESOLUTION OF THE TOHONO O'ODHAM LEGISLATIVE COUNCIL (Opposing the Proposed Rosemont Copper Project)

RESOLUTION NO. 09-569

1	WHEREAS,	it is policy of the Tohono O'odham Nation to promote "enjoyable harmony between the
2		members of the Nation and their environment," and to preserve "its historic and
3		cultural artifacts and archeological sites" as well as "preserve and cultivate native
4		arts, crafts and traditions" (Constitution, Article VI, Section 1(c)(8) and Article XVIII,
5		Section 1); and
6	WHEREAS,	it is also the Nation's policy "to seek the return to the Nation of lands and natural
7		resources, including minerals and water rights, within or adjacent to the Nation, or
8		which originally were a part of the historic Papagueria." (Constitution, Article XVI,
9		Section 9); and
10	WHEREAS,	Augusta Resource Corporation has proposed an open pit copper mining project, called a comparison of the comparison o
11		Rosemont Copper Project, on 995 acres of private land and 3,670 acres of National
12		Forest Service land about 30 miles southeast of Tucson, Arizona near the Santa Rita
13		Mountains (Federal Register/Vol. 73, No. 50/Thursday, March 13, 2008/Notices, 13527);
14		and
15	whereas,	Augusta Resource Corporation will operate the open pit copper mine on its private,
16		$patented\ mining\ claims, however, Augusta\ proposes\ to\ use\ unpatented\ mining\ claims$
17		located on public, National Forest Service land to dump the overburden from its
18		mining operations; and
19	WHEREAS,	the United States Forest Service is currently preparing a draft Environmental Impact
20		Statement on the potential consequences and effects of the open pitmineonNational
21		Forest Service's lands; and
22	WHEREAS,	the SanXavierDistrict, UnitedStatesCongressRepresentativesGrijalvaandGiffords, andGiffords, andGifford
23		the Tucson City Council, the Pima County Board of Supervisors, and various
24		$community\ groups\ such\ as\ Save the\ Scenic\ Santa\ Ritas\ oppose\ the\ proposed\ Rosemont$
25		Copper Project due to its location and potentially devastating environmental impacts;
26		and
27	WHEREAS,	the proposed location of the Rosemont Copper Project is on the Nation's ancestral
28		lands and would significantly impact, destroy, or alter cultural and archeological sites
29		containing numerous Archaic, Hohokam, and O'odham funerary objects, sacred
30		objects, and other archeological and cultural items, as well as permanently alter the
31		Cultural and Natural Landscapes of the area; and
32	WHEREAS,	the Archeological Survey for the Proposed Rosemont Copper Mine, Pima County,
33		Arizona, March 2009, recorded 96 cultural resource sites, 70 of which were
34]	recommended eligible for listing in the National Register of Historic Places; and

(Opposing the Proposed Rosemont Copper Project) Page 2 of 3 WHEREAS, the Nation considers the entire Ce:wi Duag (Santa Rita Mountains) eligible for listing 1 2 as a Traditional Cultural Place/Property under the National Historic Preservation Act, 3 16 U.S.C. § 470a(d)(6)(A), as the area was traditionally used by Tohono O'odham people 4 for hunting and gathering; and 5 WHEREAS, biological studies have not yet been completed for the project, but project consultants 6 have indicated that the following threatened and endangered species have been found 7 within the project area: lesser long-nosed bat, southwestern willow flycatcher, and 8 Chiricahua leopard frog; and 9 WHEREAS, threatened and endangered species are likely to be negatively impacted if the 10 Rosemont Copper Project is approved as habitat and forage destruction will occur: 11 and 12 WHEREAS, an unique species of talussnail, the Rosemont talussnail, is likely to be severely 13 impacted, if not completely eliminated if this project is approved; and 14 WHEREAS, the Nation is familiar with the environmental impacts of open pit copper mining, its 15 drain on natural resources and the effect on water quality, contamination of the 16 underground aquifer, and introduction of dissolved solids, sulfates, and metals into 17 the underlying groundwater; and 18 WHEREAS, if approved, the Rosemont Copper Project will be one of the largest copper mines in 19 the United States; and 20 WHEREAS, the proposed Rosemont Copper Project would adversely impact ancestral lands and 21 destroy natural resources and negatively affect the surrounding environment. 22 NOW, THEREFORE, BE IT RESOLVED by the Tohono O'odham Legislative Council that it opposes 23 Augusta Resource Corporation's proposed Rosemont Copper Project. 24 The foregoing Resolution was passed by the Tohono O'odham Legislative Council on the 22ND. Day 25 of OCTOBER, 2009 at a meeting at which a quorum was present with a vote of 2.595,50 FOR: -0-26 AGAINST; -0-NOT VOTING; and [03]ABSENT, pursuant to the powers vested in the Council by Section 27 1 of Article VI of the Constitution of the Tohono O'Odham Nation, adopted by the Tohono O'Odham 28 Nation on January 18, 1986; and approved by the Acting Deputy Assistant Secretary - Indian Affairs 29 (Operations) on March 6, 1986, pursuant to Section 16 of the Act of June 18, 1934 (48 Stat. 984). 30 31 32 TOHONO O'ODHAM LEGISLATIVE COUNCIL 33 34 35 rion M. Jose, Agislative Chairman 36 37 W day of October 38 39 40

RESOLUTION NO. 09-569

	RESOLUTION NO. <u>09-569</u> (Opposing the Proposed Rosemont Copper Project) Page 3 of 3
1	ATTEST:
2	
3	William Wills
4	Evonne Wilson, Legislative Secretary
5	<u> </u>
6	22 day of <u>Nt Mes</u> , 2009.
7	
8	Said Resolution was submitted for approval to the office of the Chairman of the Tohono O'Odham
9	Nation on the \(\frac{\lambda}{\lambda}\) day of \(\frac{\lambda}{\lambda}\) day day of \(\frac{\lambda}{\lambda}\) day day of \(\frac{\lambda}{\lambda}\) day
10	pursuant to the provisions of Section 5 of Article VII of the Constitution and will become effective
11	upon his approval or upon his failure to either approve or disapprove it within 48 hours of
12	submittal.
13	TOHONO 9'ODHAM LEGISLATIVE COUNCIL
14	
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17	Verlon M. Jose, Legislative Chairman
18	
19	
20 21	(VI APPROVED antho O 2 day of Oatoback 2009
22	[X] APPROVED on the Haday of October, 2009
23	[X] APPROVED on the 22 day of October, 2009 [] DISAPPROVED at 10125 o'clock, 2.M.
24	at the same of the
25	
26	
27	NED NORRIS, JR., CHAIRMAN
28	TOHONO O'ODHAM NATION
29	VICE CHAMMEN
30	0.00
31	
32	20
33	Returned to the Legislative Secretary on the 23 day of
34	Mther , 2009, at 11:31 o'clock, @.M.
35	
36	
37	(Han Illa)
38	<u> </u>
39	Evonne Wilson, Legislative Secretary
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ACTION: OPPOSING THE PROPOSED ROSEMONT COPPER PROJECT

MOVED: COUNCILMAN TIMOTHY JOAQUIN SECOND: COUNCILWOMAN OLIVIA VILLEGAS-LISTON

DATE: OCTOBER 22, 2009

DISTRICT	LEGISLATIVE REPRESENTATIVES	# OF VOTES	FOR	AGAINST	NOT VOTING	ABSENT
SIF OLDAK	1. WAVALENE ROMERO (Nicholas Jose)	99.35	х	7.5		
198.7	2. MARY LOPEZ	99.35	х			
SELLS	1. KIMBERLY LISTO	224.80	х			
449.6	2. EVELYN B. JUAN MANUEL	224.80	х			
SCHUK TOAK 159.0	1. FRANCES B. CONDE (Fredrick Jose)	79.50	х			х
	2. LINDA PARLEY (Agnes Joaquin)	79.50	X			
SAN XAVIER 204.7	1. FELICIA NUÑEZ	102.35	х			х
	2. OLIVIA VILLEGAS-LISTON (Eugene Enis)	102.35	X	_		
SAN LUCY	1. LORRAINE EILER	93.55	x			
187.1	(Charlotte Cadavas) 2. GLORIA RAMIREZ ()	93.55	х			
PISINEMO 184.5	1. CHESTER ANTONE	92.25	x	_		
	(Tony Murrietta) 2. EDWARD MANUEL (Gerald Fayuant)	92.25	х			
HICKIWAN	1. MICHELLE ORTEGA	87.25	х			
174.5	2. SANDRA ORTEGA	87.25	X			
GU VO	1. GRACE MANUEL	103.15	x			х
206.3	2. PAMELA ANGHILL (Angela Ortiz)	103.15	x			
GU ACHI	1. TIMOTHY L. JOAQUIN	115.05	х			
230.1	2. CYNTHIA E. MANUEL	115.05	x			
CHUKUT KUK 277.0	1. ETHEL GARCIA (Absent)	138.50	x			
	(Sara Mae Williams) (Present) 2. VERLON M. JOSE ()	138.50	x			
BABOQUIVARI 324.0	1. FRANCES MIGUEL	162.0	х			
	(Roberta Harvey) 2. FRANCES G. ANTONE ()	162.0	x			
	TOTAL	2,595.50	2,595.50	-0-	-0-	[03]